

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001719**Date Inspected:** 28-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Jiangyin**Location:** Chang xing dao, Shanghai**Quality Control Contact:** Mr. Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** See below**Bid Item:** 77, 78, 79**Lot No:** B# 204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

1. An inspection was requested for OBG counterweight external after mist coating for adhesion test after mist coat at painting workshop no. 1, CW32 and CW 34, notification no. 2575. This Caltrans inspector observed, ABF Inspector Mr. Sun and Mr. Shi stone were performing the adhesion test with 3 dolly's by calibrated pull-off adhesion tester. The results found to be 1. CW 34-9.2MPA, 100% adhesion, 2. CW 34- 11.1MPA, 100% adhesion, 3. CW32 - 9.7MPA- 100 % adhesion. The results found to be within the requirements of Contract documents which is 4 MPA minimum. Ambient conditions were monitored and found to be 4.6 Deg. above dew point and the relative humidity found to be 55.9% inside the paint shop, which is within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

2. An inspection was requested for OBG internal ceiling U rib joining areas before the splices assembled between 5BE and 5CE, 5AE and 5BE at OBG assembly yard, request no. 2576. This Caltrans inspector observed, ABF Inspector Mr. Shu stone and Mr. Sun performing primer application inspection of the specified areas. The same was found rejected by ABF for high DFT of Interzinc 22. The same was reoffered after the rectification of the High DFT areas vide notification no. 2577. The Dry film thickness after rectification by applying sand paper found to be in the range of 50 to 125 microns which is acceptable as per contract documents. Ambient conditions

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were monitored which is found to be within the parameters of contract documents.

3. An inspection was requested for surface preparation inspection for OBG connection weld seam external surface between 5AE and 5BE, 5BE and 5CE at OBG assembly yard, request no. 2579. This Caltrans inspector observed, ABF Inspector Mr. Wei, Mr. Sun performing Blasting inspection of the specified areas. The same was found accepted by ABF after ZPMC attended the marked points for grinding and reblasting except the east slope on 5BE/5AE weld seam. Surface profile measured by ZPMC by Coarse grain method found to be 72 to 82 microns which is acceptable as per contract documents. Ambient conditions were monitored and found to be 5.2 deg. above dew point and the relative humidity found to be 55.2% over the specified area which is found to be within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

Summary of Conversations:

No applicable conversations

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mr. Skyler Guest (15000422360), who represents the Office of Structural Materials for your project.

Inspected By:	Baskar, Govindarajan	Quality Assurance Inspector
Reviewed By:	Clifford, William	QA Reviewer
